

<p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i></p>		<i>Complete if Known</i>	
		Application Number	10/705,391
		Filing Date	November 10, 2003
		First Named Inventor	HUGHES, JOY VANNELIA
		Art Unit	3732
Examiner Name	Unassigned		
Sheet	1	of	10
		Attorney Docket Number	018563-005910US

U.S. PATENT DOCUMENTS*				
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number Kind Code ² (if known)		
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	CR	5,740,267		04-14-1998	Echerer et al.
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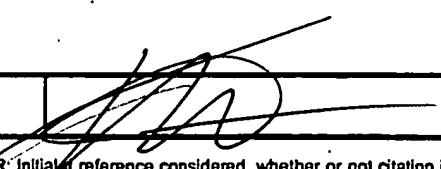
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)		
	GT	EP	091,876	A1	10-19-1983	Duret
	CU	EP	299,490	A2	01-18-1989	Steinbichler et al.
	CV	EP	376,873	A2	07-04-1990	Shafir
	GW	EP	499,848	B1	08-17-1992	Andersson et al.
	CX	EP	547,500	A1	08-12-1998	Andersson et al.

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
CY	EP	731,673	B1	09-18-1998	Andersson et al.		<input type="checkbox"/>
CZ	EP	774,933	B1	05-28-1997	Oden et al.		<input type="checkbox"/>
DA	FR	2,652,256	A1	03-29-1991	Jourda		<input type="checkbox"/>
DB	FR	2,860,828	A1	06-02-1978	Suyehiro		<input type="checkbox"/>
DC	WO	90/08,512	A1	08-09-1990	Lemoren		<input type="checkbox"/>
DD	WO	91/04,713	A1	04-10-1991	Jourda et al.		<input type="checkbox"/>
DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.		<input type="checkbox"/>
DF	WO	98/44,865	A1	10-15-1998	Andersson		<input type="checkbox"/>
DG	WO	98/58,596	A1	12-30-1998	Chishū et al.		<input type="checkbox"/>

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NON PATENT LITERATURE DOCUMENTS					
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	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," Optical Engineering, Vol. 20(6) (1981), pp. 953-961.			
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	DQ	BAUMRIND et al., "Seminars in Orthodontics," Seminars in Orthodontics, Vol. 7, No. 4 (Dec. 2001), p. 222.			
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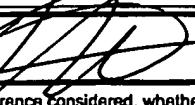
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	DX	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.			
	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>Journal of Dental Research</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, 1 page total.			
	DZ	BROOK et al., "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter, Abstract of Papers, 1985, Dept. of Children's Dentistry and Orthodontics, <i>J Dent Res.</i> , March 1986, pp. 428-431.			
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	EC	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.			
	ED	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.			
	EE	CHIAPPONE, "Constructing the gnathologic setup and positioner" <i>J. Clin. Orthod.</i> , 14:121-133, 1980.			
	EF	COTTINGHAM, "Gnathologic clear plastic positioner" <i>Am. J. Orthod.</i> , 55:23-31, 1969.			
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	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.			
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	EJ	CURETON, "Correcting malaligned mandibular incisors with removable retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.			
	EK	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.			
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	EM	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" <i>DSO Production AG</i> , Jan. 1992, pp. 1-7.			

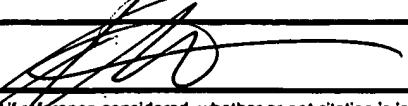
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	EP	DenTrac Corporation, Dentrac document, pp. 4-13.			
	EQ	DURET et al., "CAD-CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.			
	ER	DURET et al., "CAD/CAM imaging in dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.			
	ES	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hennson International Product Brochure</i> , Jan. 1986., 18 pages total.			
	ET	DURET, "Vers une prothese informatisee," (English translation also attached), <i>Tonus</i> , vol. 75, (Nov. 15, 1985), pp. 55-57.			
	EU	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1979), pp. 767-772.			
	EV	ELSASSER, "Some observations on the history and uses of the Kesling positioner" <i>Am. J. Orthod.</i> , 36:368-374, 1950.			
	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.			
	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.			
	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," Abstract of Papers, <i>Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.			
	EZ	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 4 pages total.			
	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity" Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AAOMS Sept. 13, 1990, 3 pages total.			
	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.			
	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.			

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	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary In English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.			
	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," <i>AAOMS</i> 1999, p. 96.			
	FF	Inside the ADA, <i>Journal Of The American Dental Assoc.</i> , Vol. 118 (March 1989) 9 pages total.			
	FG	JCO Interviews, "Craig Andreiko , DDS, MS on the Elan and Orthos Systems", JCO, (Aug. 1994), pp. 459-468.			
	FH	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1983), pp. 819-831.			
	FI	JERROLD, "The problem, electronic data transmission and the law," <i>AJO-DO</i> , (Apr. 1988), pp. 478-479.			
	FJ	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," <i>British Journal of Orthodontics</i> , Vol. 16 (1989), pp. 85-93.			
	FK	KAMADA et al., "Case reports on tooth positioners using LTV vinyl silicone rubber" <i>J. Nihon University School of Dentistry</i> , 26(1):11-29, 1984.			
	FL	KAMADA et al., "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" <i>J. Nihon University School of Dentistry</i> , 24(1):1-27, 1982.			
	FM	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.			
	FN	KESLING, "Coordinating the predetermined pattern and tooth positioner with conventional treatment" <i>Am. J. Orthod. Oral. Surg.</i> , 32:285-293, 1946.			
	FO	KESLING, "The philosophy of the tooth positioning appliance" <i>Am. J. Orthod. Oral. Surg.</i> , 31(6):297-304, 1945.			
	FP	KLEEMANN et al., "The speed positioner" <i>J. Clin. Orthod.</i> , 30:673-680, 1996.			
	FQ	KURODA et al., "Three-dimensional dental cast analyzing system using laser scanning" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 110:365-369, 1996.			
	FR	LAURENDEAU et al., "A Computer-Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," <i>IEEE Transactions on Medical Imaging</i> , Vol. 10, No. 3 (Sept. 1991), pp. 453-461.			
	FS	LEINFELDER et al., "A new method for generating ceramic restorations: a CAD-CAM system," <i>Journal Of The American Dental Assoc.</i> , Vol. 118, No. 6 (Jun. 1989), pp. 703-707.			

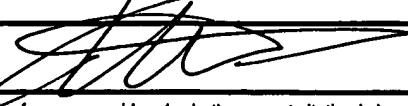
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Substitute for form 1449B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				<i>Application Number</i>	10/705,391
(use as many sheets as necessary)				<i>Filing Date</i>	November 10, 2003
				<i>First Named Inventor</i>	HUGHES, JOY VANNELIA
				<i>Art Unit</i>	3732
				<i>Examiner Name</i>	Unassigned
Sheet	8	of	10	<i>Attorney Docket Number</i>	018563-005910US

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	FT	MCNAMARA et al., <i>Orthodontic and Orthopedic Treatment in the Mixed Dentition</i> , Needham Press, January 1993. pp.347-353.			
	FU	MCNAMARA et al., "Invisible Retainers", <i>J. Clinical Orthodontics</i> , (August 1985) pp. 570-578.			
	FV	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339, <i>Journal of Dental Research</i> , vol. 66(a) (1987), p. 339.			
	FW	MÖRMANN et al., "Marginal Adaptation von adhasiven Porzellaninlays in vitro," <i>Schweizerische Monatsschrift für Zahnmedizin</i> , Vol. 85 (1985), p. 1118-1129.			
	FX	MÖRMANN et al., "Marginale Adaptation von adhäsuven Porzellaninlays in vitro," Separatdruck aus: Schweiz. Mschr. Zahnmed. 95: 1118, 1985.			
	FY	NAHOUM, "The vacuum formed dental contour appliance" <i>The New York State Dental Journal</i> , 30(9):385-390, Nov. 1964.			
	FZ	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," <i>Dentistry Today</i> , (October 1990), pp. 20, 22-23, 54.			
	GA	NISHIYAMA et al., "A new construction of tooth repositioner by LTV vinyl silicone rubber" J. Nihon University School of Dentistry, 19(2):93-102, 1977.			
	GB	PINKHAM, "Foolish' Concept Propels Technology," <i>Dentist</i> , Jan./Feb. 1989, 3 pages total.			
	GC	PINKHAM, "Inventor's CAD/CAM may transform dentistry," <i>Dentist</i> , Sept. 1990, 3 pages total.			
	GD	PONITZ, Invisible Retainers, 59 Am. J. Orthodontics, March 1971, pp. 266-272.			
	GE	Procera Research Projects, <i>PROCERA Research Projects 1993 — Abstract Collection</i> , 1993, pp. 3-28.			
	GF	REKOW, "A Review of the Developments in Dental CAD/CAM Systems," (contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), <i>Dental Clinics: Prosthodontics and Endodontics</i> pp.25-33, 1992.			
	GG	REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future," <i>Journal</i> , Vol. 58 No. 4, (April 1992), pp. 283, 287-288.			
	GH	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>The Journal of Prosthetic Dentistry</i> , Vol. 58, No. 4 (Oct. 1987), pp. 512-516.			
	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>Journal of the American Dental Assoc.</i> , Vol. 122 (1991), pp. 43-48.			

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	GJ	REKOW, "Feasibility of an Automated System for Production of "Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.			
	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," <i>British Journal of Orthodontics</i> , pp. 53-54.			
	GL	RICHMOND, "Recording the dental cast in three dimensions," <i>Am. J. Orthod. Dentofac. Orthop.</i> , Vol. 92, No. 3, (Sept. 1987), pp.199-206.			
	GM	RUDGE, "Dental arch analysis: arch form, A review of the literature," <i>European Journal of Orthodontics</i> , Vol. 3, No. 4 (1981), pp.279-284.			
	GN	SAKUDA et al., "Integrated information-processing system in clinical orthodontics: An approach with use of a computer network system," <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol. 101 No. 3 (March 1992), pp. 210-220.			
	GO	SCHELLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," <i>Arch Otolaryngol Head Neck Surg.</i> Vol. 114 (April 1988), pp. 438-442.			
	GP	SEGÜ et al., "Computer-aided Cephalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), <i>Fortschr. Kieferorthop.</i> 44, 370-376 (Nr. 5), 1983			
	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner" <i>Am. J. Orthod.</i> 59:596-599, 1971			
	GR	Siemens, "CEREC - Computer-Reconstruction, "High Tech in der Zahnmedizin, 14 page total.			
	GS	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.			
	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), <i>Dtsch Zahnärztl Z</i> 45, 314-322, 1990.			
	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 21 pages total.			
	GV	U.S. Department of Commerce, National Technical Information Service, "Holography: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.			
	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.			
	GX	VAN DER LINDEN et al., Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, p. 1101.			
	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.			

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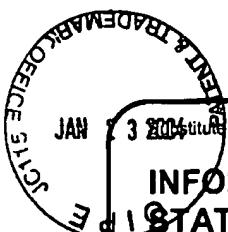
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	GZ	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.		
	HA	VÁRADY et al., "Reverse Engineering of Geometric Models - An Introduction," May 13, 1996, pp. 1-28.		
	HB	WARUNEK et al., "Clinical use of silicone elastomer appliances" /CO, MH (10):694-700, 1989.		
	HC	WARUNEK et al., "Physical and mechanical properties of elastomers in orthodontic positioners" Am. J. Orthod. Dentofac. Orthop., 95:388-400, 1989.		
	HD	WELLS, "Application of the positioner appliance in orthodontic treatment" Am. J. Orthodont., 58:351-366, 1970.		
	HE	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan./March 1987, pp. 2-5.		
	HF	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>Journal of Dental Practice Admin.</i> , pp. 50-55, April/June 1987.		
	HG	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," <i>Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery</i> , AAOMS, Sept. 13, 1990, p. 5.		
	HH	YAMAMOTO et al., "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society, Vol. 12, No. 5, pp. 2051-2053, 1990		
	HI	YAMAMOTO et al., "Optical measurement of dental cast profile and application to analysis of three-dimensional tooth movement in orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.		

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U.S. PATENT DOCUMENTS					
Examiner	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	AA	US-3,680,800	05-1972	Andrews	
	AB	US-3,880,803	01-1975	Levine	
	AC	US-4,755,139	07-1988	Abbate et al.	
	AD	US-4,798,534	01-1989	Breads	
	AE	US-4,837,732	06-1989	Brandestini et al.	
	AF	US-4,856,891	08-1989	Breads et al.	
	AG	US-4,936,862	08-1990	Walker et al.	
	AH	US-5,035,813	07-1991	Breads et al.	
	AI	US-5,055,039	10-1991	Abbate et al.	
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	AK	US-5,139,419	08-1992	Andreiko et al.	
	AL	US-5,186,623	02-1993	Breads et al.	
	AM	US-5,273,429	12-1993	Rekow et al.	
	AN	US-5,338,198	08-1994	Wu et al.	
	AO	US-5,340,309	08-1994	Robertson	
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	AQ	US-5,368,478	11-1994	Andreiko et al.	
	AR	US-5,382,184	01-1995	Stern	
	AS	US-5,395,238	03-1995	Andreiko et al.	
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	AX	US-5,474,448	12-1995	Andreiko et al.	
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	BA	US-5,587,912	12-1996	Andersson et al.	
	BB	US-5,605,459	02-1997	Kuroda et al.	
	BC	US-5,607,305	03-1997	Andersson et al.	
	BD	US-5,645,421	07-1997	Slootsky	
	BE	US-5,851,115	12-1998	Carlsson et al.	
	BF	US-5,975,893	11-1999	Chishil et al.	
	BG	US-6,371,761	04-2002	Cheang et al.	

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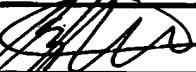
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	BH	AFTOSMIS, "Intersection of Generally Positioned Polygons in R ³ " Downloaded from web on 08/17/2000 << http://george.arc.nasa.gov/~aftosmis/cart3d/bool_intersection.html >> pp. 1-4.	
	BI	AFTOSMIS, "Tie-breaking, Degeneracies and Floating Point Arithmetic" Downloaded from web on 04/28/1999 << http://george.arc.nasa.gov/~aftosmis/cart3d/degeneracy/degeneracy.html >> pp. 1-2.	
	BJ	BOHM et al., "A survey of curve and surface methods in CAGD" Computer Aided Geometric Design (1984) 1:1-60.	
	BK	CHIAPPONE, "Constructing the Gnathologic Setup and Positioner" JCO, (02/1980) Vol. XIV No. 2, pp. 121-133.	
	BL	COTTINGHAM, "Gnathologic Clear Plastic Positioner" Am. J. Orthodontics, (01/1969) Vol. 55 No. 1, pp. 23-31.	
	BM	CURETON, "Correcting Malaligned Mandibular Incisors with Removable Retainers" J. Clin. Orthodon. (1996) 30:390-395.	
	BN	EDELSBRUNNER et al., "Simulation of Simplicity: A Technique to Cope with Degenerate Cases in Geometric Algorithms" ACM Transactions on Graphics (1990) 9(1):68-104.	
	BO	KESLING, "The Philosophy of the Tooth Positioning Appliance" Am J. Orthod. Oral Surg. (06/1945) Vol. 31, No. 8 pp. 297-304.	

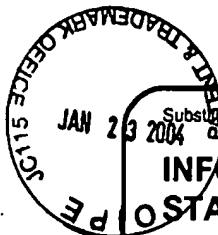
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	BP	KESLING, "Coordinating the Predetermined Pattern and Tooth Positioner with Conventional Treatment" Am. J. Orthod. Oral Surg., (1946) 32:285-293.		
	BQ	KLEEMAN et al., "The Speed Positioner" JCO (12/1996) Vol. XXX, No. 12, pp. 673-680.		
	BR	KURODA et al., "Three-Dimensional Dental Cast Analyzing System Using Laser Scanning" Am. J. Orthod. Dent. Orthop. (10/1996) Vol. 110, No. 4, pp. 365-369.		
	BS	"Adapting Vacuum Thermoforming Machines for Essix™" http://www.essix.com/magazine/default.html, 08/13/1997.		
	BT	SHILLIDAY, "Minimizing Finishing Problems with the Mini-Positioner" Am. J. Orthodontics, (1971) 59:598-599.		
	BU	Tru-Tain Orthodontic & Dental Supplies, AAO Case Partner		
	BV	WARUNEK, et al., "Clinical Use of Silicone Elastomer Appliances" JCO (10/1989) Vol. XXIII, No. 10, pp. 694-700.		
	BW	WELLS, "Application of the Positioner Appliance in Orthodontic Treatment" Am. J. Orthodont (10/1970) Vol. 58, No. 4, pp. 351-368.		

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